SBA SHIPYARDS, INC. PROBABLE SOURCES OF CONTAMINANTS CURRENTLY PRESENT IN TANKS AND PITS					
COMPANY	DATE(S)*	VESSEL NUMBER	PREVIOUS 3 CARGOES		
Allied Towing	8/21/85	Kelly	Asphalt, Bunker C		
	4/21/86	Kelly	Asphalt		
	8/1/86	1-50	Caustic Soda		

<sup>\* -</sup> Based on date from Marine Chemist's Gas Free Certificate

P. O. Box 3602 Beaumont, Texas 77704 (409) 832-6409, 866-4822, 866-4223

## MARINE CHEMIST CERTIFICATE SERIAL NO. B135146

W 0 - 911 SBA SHIPYARD

8 21/85

Survey Requested by KELLY	Vessel Owner or Agent TANK BARGE	SBA MERMENTAU S Y
ASPHALT, BUNKER C	Type of Vessel JW COMB	Specific Location of Ves
ast Three (3) Cargoes	Test Method	Time Survey Comple
CARGO TANKS 125	less than 5% LEL,	some residue, secured
FORWARD RAKE P&S		
	WORKERS, WITH V	ENTILATION
AFTER DAVE DODY CINE	69 151 - 6-	A H A CAPE FOR
AFTER RAKE, PURI STUE	LEL, SOME CO	mpound H type coating, SAFE FOR
	WORKERS, WITH	VENTI LATION
AFTER RAKE, STBD SIDE	The second secon	m over water, SAFE FOR WORKERS,
	WITH VENTILATIO	N.
AFTER PUMP ROOM	VENTILATION	n bilges, SAFE FOR WORKERS, WITH
WING DOUBLE BOTTOMS 1 P&S, 55-	SAFE FOR WORKE	RS, SAFE FOR HOT WORK WITH AIR
	VENTILATION	
WING DOUBLE BOTTOMS 2PES 3PE	S APES SP 6PES-0% IFI some	product residue, put awater ove
mine booker borrano 2100, 510	м product, t	nen SAFE FOR HOT WORK on outside
SAFE FOR HOT WORK ON MAIN DE		ld nipple to drill hole.
	STANDA	NAME OF TAXABLE PARTY OF TAXABLE PARTY.

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306-1980, Subsections 1-6.1 through 1-6.4, and Subsection 5-3.2).

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers has not been met.

SAFE FOR HOT WORK; Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306-1980 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-3 of NFPA 306-1980 and understands conditions and limitations under which it was issued

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed\_

20M-2-83-AP

Date

Signed\_

Certificate No

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

MANTE CHAMMOT CENTILITICATE **SERIAL NO. D** 18633

Survey Requested by	HELED LOUBERCE Vessel Owner or Agent	4-21-86 Date LA
	Vessel Owner or Agent	Date L/s
Vessel	Type of Vessel	5 13 14 JENNING. Specific Location of Vest
	Type of Vessel	
FI < DHALT Lasi Three (3) Cargoes	Oz/LEL/VISUAL	9: 45 And Time Survey Complet
Lest (1) Calyus	( Vel Web year)	raine Survey Compiler
BOW RAKE VOIDS	P/S SAFE FOR WORK P/S CORTED WITH EN	(ERS
STERN RAKE VOIDS	P/S / CORTER WITH EN	CREKA TRESERVATICA
No. 1 Double Borro	M (STBD) SAFE FOR WORD	KIRS
	SAFE FOR HOTE	lorx
DoubLE BOTTOMS		
No. 1 P/2P/5/3	PLS /4 PLS/5 PLS/6 PLS] - SAI ASPHA	E FOR WORKERS
AA	TSPHA.	LT BOTTOMS
CARGO YANKS	SAFE FOR	HOTHORX WITH
No. 1-2.3-4-5	AREA CLERY	ED OR COUNTED
	WITH FIRE	RETARDANT
Tung Room		WAY . HOWER
		WITH CHARGE
[K1-14]	FIRE HOSE RE	OD, ON STAND-BY
Vents To Paper Tank	5- SAFE FOR HOWARK WITH	PLUG IN
-5	S- SAFE FOR HONDORK WITH	PIPE
YORTHALE AND UENTIL	MITION REGDI IN WORK TA	NK.
In the event of any physical or atmo-	spheric changes adversely affecting the STANDARD SAFETY ny doubt, immediately stop all work and contact the undersign	DESIGNATIONS assigned
subject to gas accumulation, unless specifically affected. All lines, vents, heating coils, valve designated.	ripulation of valves or closure equipment tending to alter conditions in y approved in this Certificate, requires inspection and endorsement or release, and similarly enclosed appurtenances shall be considered "not s	ssue of Certificate for the spaces so afe" unless otherwise specifically
•	t, paraphrased from NFPA 306 Subsections 1-6.1 through 1-6.4, and Subsections 1-6.1 through 1-6.4 through	- ·
	artment or space so designated: (a) the oxygen content of the atmosphere is at irmissible concentrations; and that, (c) the residues are not capable of producing to	

conditions while maintained as directed on the Marine Chemist's Certificate.

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certific	este under Section 2-3 of NFI	PA 306	This Certificate is	based on	conditions—existing	at the time	ine inspection nere	
and understands conditions and limitations under which	it was issued "		orth was complet	ted and is	issued subject to	compliance w	ith all qualification	ns and
	A		nstructions.		<b>A</b>	1 / / /	17	
	101					11 6 11		
		<i>M</i> / ~	. / ///				<i>'</i>	
and the second section of	1100	ארו או או				-		
Signed Signed		7/4/	TUP)	Sugar II	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 10	والمستخلف	2
Name	Company		Date	100000	one Chemist	<del></del>	Cartificate No.	
1981119 Anima (	Company		Andrew Committee of the	Married Marrie				
	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN					_,		

W.O. # 978

SERIAL NO. D 18787

SBA S. Y. " Survey Requested by	A L J J J J J J J J J J J J J J J J J J	8-1-86 Date
Survey Requested by . * * * * * * * * * * * * * * * * * *	· · · · · · · · · · · · · · · · · · ·	Sal Jayants
Votool (1)	TANK BARGE	poetine cocation or var
7-50  Vescoi  100  100  100  100  100  100  100  1	Oz/Lity Visual	3:00 Pm
ast Three (3) Cargoes	Test Marthod	Time Survey Comple
BOW RAKE VO	(10)	
VOID AFT OF 13	ENKE \	
COz Compt. (	SAFE FOR WOR	·
STERN RAKE US	SAFE FOR HON	JORK
CO2 Compt. CA	(1) SAFE FOR HOST	on REGD. IN USE TO
VOID, FORWARD OF	- STEEN RAKE - O'S LEL CHECKED THE CLUBBLE TO OPEN	1 20.8 % ONDER
	CHECKED THE	HATCH
ARGO LANKS # 1-	2-3-4 P/s	JAR WORKERS
	COFFERDAMS PLS SAFE	
WING VOID D.	13.10 P/S- O'h Lit / 20,8 % OX NOT SAFE FOR WORKES- IF FOR HOTWIRK ON EXTERNA	
1-2-3-4-5	P/5- 06 Lik / 20,8 % OX	V BEN
	NOT SAFE FOR WARRES.	SOME CAUSIC SODA
THIS VESSEL IS SAF	FOR HOTWORK ON EXTERNA	L SHELL MUD ON
OPON DECK.		

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compertments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or relessue of Certificate for the spaces so affected. All lines, vents, heating colls, valves, and similarly enclosed appurtenences shall be considered "not safe" unless otherwise specifically designated.

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The undersigned acknowledges receipt of was outsing at Frince Section 5-3 of MLLY 200	inia callineate is mesed on conditions	
and understands conditions and limitations under which it was issued."		ubject to compliance with all qualifications an
DATUS A	2/1/8/	all Merces 5
Signed	Signed Signed	
Name . Company	Date   Manne Chemis	
	gill in grid policies del transist uso grants control galliper transportation control control control control	